

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch:

2007402-032

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Sample Lab ID#: 2007402-031
Sample Field ID#: LT-4C

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Status</u>
Arsenic	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Barium	1.5	mg/L	0.080	0.24	EPA 6310B	12/11/2007 12:00 PM	Approved
Cadmium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Calcium	240	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Chromium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Copper	ND	mg/L	0.40	1.2	EPA 6010B	12/11/2007 12:00 PM	Approved
Hardness	1100	mg/L as CaCO ₃	0.66	2.0	SM 2340B	12/11/2007 12:00 PM	Approved
Iron	ND	mg/L	0.15	0.46	EPA 6010B	12/11/2007 12:00 PM	Approved
Lead	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Magnesium	120	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Manganese	0.58	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	10/30/2007 4:00 PM	Approved
Selenium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Silver	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Sodium	3.6 M	mg/L	1.6	4.8	EPA 6010B	12/11/2007 12:00 PM	Approved
Zinc	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Status</u>
Total Cyanide	ND	mg/L	0.050	0.15	SM 4530-CNC E	10/24/2007 12:00 PM	Approved

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Status</u>
						Collect Date: 10/16/2007 3:00 PM Receive Date: 10/16/2007 5:25 PM	

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)
NA = Not applicable

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
MRL = Minimum Reporting Limit

Analysis Report for Login Batch: 2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Sample Lab ID#: 2007-002-033
Sample Field ID#: LT-4E

Analyte/Compound**Surrogate**

Dibromofluoromethane
Toluene-d8
4-bromofluorobenzene

Result

98
106
97

% Recovery

70 - 130

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
						Collect Date: 10/16/2007	3:00 PM
Surrogate						Receive Date: 10/16/2007	5:25 PM
Dibromofluoromethane	98	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene-d8	106	ug/L	1.6	10	EPA 8260B	10/01/2007 12:44 PM	Approved
4-bromofluorobenzene	97	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloromethane	180 J	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Vinyl chloride	ND	ug/L	10	50	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromomethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroethane	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Acetone	ND J	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
J = Accuracy data outside of acceptance criteria in MS.							
Trichlorofluoromethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Not Analyzed							
1,1-Dichloroethene	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon disulfide	1.8 M	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methylene chloride	1.2 M	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methyl-t-butyl ether	2.7	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloroethane	ND	ug/L	4.6	20	EPA 8260B	10/01/2007 12:44 PM	Approved
MEK	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobromomethane	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.43	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,2-Dichloroethene	1.8 M	ug/L					

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Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch:

2007402

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Sample Lab ID#: 2007402-033
 Sample Field ID#: LT-4E

Site: Crow Lane Landfill
 Locator: Leachate Tank 4

Sample Lab ID#:	2007402-033	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	John Carrigan	Collect Date:	10/16/2007	3:00 PM
Sample Field ID#:	LT-4E	Locator:	Leachate Tank 4	Matrix:	LL	Collector:	Hart, E.	Receive Date:	10/16/2007	5:25 PM

Analyte/Compound

Result

Units

MDL

MRL

Method

Status

Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	Approved
Benzene	2.4	ug/L	0.32	2.0	EPA 8260B	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	Approved
Trichloroethene	0.68 M	ug/L	0.20	2.0	EPA 8260B	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	Approved
MIBK	ND	ug/L	2.1	20	EPA 8260B	Approved
Toluene	1.6 M	ug/L	0.29	2.0	EPA 8260B	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	Approved
Ethylbenzene	2.4	ug/L	0.17	2.0	EPA 8260B	Approved
p,m-Xylene	0.76 M	ug/L	0.49	4.0	EPA 8260B	Approved
c-Xylene	3.0	ug/L	0.27	2.0	EPA 8260B	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected

Estimated Value:

W = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF ENVIRONMENTAL ANALYSIS
 WILLIAM X. WALL EXPERIMENTATION STATION
 EPA #: MA00019

Analysis Report for Login Batch: 20074032

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-033	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/6/2007	3:00 PM
Sample Field ID#:	LT-4E	Locator:	Leachate Tank 4	Collector:		Receive Date:		Collect Date:	10/6/2007	5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Bromoform	ND	ug/L	0.35	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
Isopropylbenzene	1.1 M	ug/L	0.20	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
n-Propylbenzene	0.48 M	ug/L	0.14	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 3250B	10/01/2007 12:44 PM	Approved
1,3,5-Trimethylbenzene	0.54 M	ug/L	0.13	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,2,4-Trimethylbenzene	5.1	ug/L	0.14	2.0	EPA 3250B	10/01/2007 12:44 PM	Approved
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
4-Isopropyltoluene	0.71 M	ug/L	0.27	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
1,2,4-Trichlorobutadiene	ND	ug/L	0.52	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 3260B	10/01/2007 12:44 PM	Approved
Naphthalene	61	ug/L	2.6	10	EPA 3260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 3250S	10/01/2007 12:44 PM	Approved

N = Dichlorofluoromethane, trimethyl silanol, ethyl methyl benzene, methyl-methyl benzene.

- ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LRE₁, and/or trip blank or no trip blank was collected
 Estimated Value:
 M = Analyte concentration > MDL but < MRL
 H = USEPA holding time exceeded
 J = Other QC criteria not met (see comments)
 R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
 MDL = Method Detection Limit
 MRL = Minimum Reporting Limit
- LRB = Laboratory Reagent Blank
 LB = Laboratory Blank (equiv. Method Blank)
 LFB = Laboratory Fortified Blank (equiv. LCS)
 LFM = Laboratory Fortified Sample Matrix (equiv. MS)
 QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Prepared For: NERO BUREAU OF WASTE PREVENTION

Contact: John Carrigan

Sample Lab ID#: 2007402-034

Sample Field ID#: LT-4E

Analyte/Compound

Surrogate

4-bromofluorobenzene

1,2-dichlorobenzene-D4

1,4-Dioxane

Site: Crow Lane Landfill
Locator: Leachate Tank 4

Result **Units** **MDL** **MRL** **Method**

Acceptance Criteria

% Recovery 70 - 130 Modified EPA 524.2

% Recovery 70 - 130 Modified EPA 524.2

20 ug/L 2.0 Modified EPA 524.2

Site: Crow Lane Landfill
Locator: Leachate Tank 4

Result **Units** **MDL** **MRL** **Method**

Acceptance Criteria

% Recovery 15 - 110 EPA 8270C

% Recovery 15 - 110 EPA 8270C

74 % Recovery 30 - 130 EPA 8270C

0.0 % Recovery 15 - 110 EPA 8270C

101 % Recovery 30 - 130 EPA 8270C

ND ug/L 0.29 5.0 EPA 8270C

ND ug/L 1.0 5.0 EPA 8270C

ND ug/L 1.8 5.0 EPA 8270C

ND ug/L 0.81 5.0 EPA 8270C

Project Name: Crow Lane Landfill-Newburyport

Project Coordinator: John Carrigan

Site: Crow Lane Landfill
Locator: Leachate Tank 4

Result **Units** **MDL** **MRL** **Method**

Acceptance Criteria

% Recovery 70 - 130 Modified EPA 524.2

% Recovery 70 - 130 Modified EPA 524.2

20 ug/L 2.0 Modified EPA 524.2

Site: Crow Lane Landfill
Locator: Leachate Tank 4

Result **Units** **MDL** **MRL** **Method**

Acceptance Criteria

% Recovery 15 - 110 EPA 8270C

% Recovery 15 - 110 EPA 8270C

74 % Recovery 30 - 130 EPA 8270C

0.0 % Recovery 15 - 110 EPA 8270C

101 % Recovery 30 - 130 EPA 8270C

ND ug/L 0.29 5.0 EPA 8270C

ND ug/L 1.0 5.0 EPA 8270C

ND ug/L 1.8 5.0 EPA 8270C

ND ug/L 0.81 5.0 EPA 8270C

ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LRF_j, and/or trip blank or no trip blank was collected

Estimated Value: N = GC/MS non-target tentatively identified compound

M = Analyte concentration > MDL but < MRL (TC) - no standard available for quantitation

H = USEPA holding time exceeded R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

J = Other QC criteria not met (see comments)

NA = Not applicable

MDL = Method Detection Limit MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENTATION STATION
EPA #: MA00019

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Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Analysis Report for Login Batch:
2007402-035

Sample Lab ID#: 2007402-035
Sample Field ID#: LT-1G

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Matrix</u>	<u>Collector</u>	<u>LL</u>	<u>Collect Date:</u>	<u>10/16/2007</u>	<u>3:00 PM</u>
								Hart, E.	<u>Receive Date:</u>	<u>10/16/2007</u>	<u>5:25 PM</u>
									<u>Analysis Date</u>	<u>10/26/2007 12:54 PM</u>	<u>Status</u>
Dichlorophenol	ND	ug/L	0.84	5.0	EPA 8270C						Approved
Not Analyzed.											
Naphthalene	39	ug/L	0.29	5.0	EPA 8270C						Approved
4-Chloro-3-methylphenol	ND	ug/L	1.1	5.0	EPA 8270C						Approved
Not Analyzed.											
Hexachlorocyclopentadiene	ND J	ug/L		5.0	EPA 8270C						Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.											
Trichlorophenol	ND	ug/L	0.73	5.0	EPA 8270C						Approved
Not Analyzed.											
Dimethyl phthalate	ND J	ug/L	1.0	5.0	EPA 8270C						Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.											
Acenaphthylene	ND	ug/L	0.63	5.0	EPA 8270C						Approved
Acenaphthrene	15	ug/L	0.46	5.0	EPA 8270C						Approved
2,4-Dinitrophenol	ND	ug/L	3.0	5.0	EPA 8270C						Approved
Not Analyzed.											
4-Nitrophenol	ND	ug/L	1.5	5.0	EPA 8270C						Approved
Not Analyzed.											
Fluorene	8.1	ug/L	0.52	5.0	EPA 8270C						Approved
Diethylphthalate	ND	ug/L	1.6	5.0	EPA 8270C						Approved
Pentachlorophenol	ND	ug/L	0.97	5.0	EPA 8270C						Approved
Not Analyzed.											
Phenanthrene	11	ug/L	0.39	5.0	EPA 8270C						Approved
Anthracene	1.8 M	ug/L	0.48	5.0	EPA 8270C						Approved
Dibutylphthalate	22 J	ug/L	0.87	5.0	EPA 8270C						Approved
J = Accuracy data (MS) outside of acceptance criteria.											

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected

Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

N = GC/MS non-target tentatively identified compound

(TC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Analysis Report for Login Batch:

2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION

Contact: John Carrigan

Sample Lab ID#: 2007402-035
 Sample Field ID#: LT-4G

Analyte/Compound	Result	Site: Crow Lane Landfill		Matrix: LL	Collector: Hart, E.	Collect Date: 10/16/2007	Receive Date: 10/16/2007	Analysis Date: 10/26/2007 12:54 PM	Status: Approved
		Units	MDL	MRL	Method				
Fluoranthene	1.6 M	ug/L	0.77	5.0	EPA 8270C				
Pyrene	1.7 M	ug/L	0.69	5.0	EPA 8270C				
Butylbenzylphthalate	ND	ug/L	0.94	5.0	EPA 8270C				
Bis(2-ethylhexyl)adipate	ND	ug/L	0.86	5.0	EPA 8270C				
Benzo(a)anthracene	ND	ug/L	0.54	5.0	EPA 8270C				
Chrysene	ND	ug/L	0.61	5.0	EPA 8270C				
Bis(2-ethylhexyl)phthalate	ND	ug/L	1.3	5.0	EPA 8270C				
Benzo(b)fluoranthene	ND	ug/L	1.3	5.0	EPA 8270C				
Benzo(k)fluoranthene	ND	ug/L	0.31	5.0	EPA 8270C				
Benzo(a)pyrene	ND	ug/L	1.2	5.0	EPA 8270C				
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.54	5.0	EPA 8270C				
Dibenz(a,h)anthracene	ND	ug/L	0.63	5.0	EPA 8270C				
Benzo(ghi)perylene	ND	ug/L	0.48	5.0	EPA 8270C				

Only PAHs analysis requested.

Analyte/Compound	Result	Site: Crow Lane Landfill		Matrix: LL	Collector: Hart, E.	Collect Date: 10/16/2007	Receive Date: 10/16/2007	Analysis Date: 10/26/2007 12:54 PM	Status: Approved
		Units	MDL	MRL	Method				
Ammonia-N	470	mg/L	0.020	0.060	EPA 353; 1				
COD	340	mg/L	17	51	SM 5220 C				
Nitrate/Nitrite-N	Not Reported	mg/L	0.02	0.06	EPA 353; 1				

Method not applicable to sample matrix.
 NA = Not applicable

ND = Analyzed for, but not detected above MDL (equiv. U)	B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
Estimated Value:	
M = Analyte concentration > MDL but < MRL	N = GC/MS non-target tentatively identified compound
H = USEPA holding time exceeded	(TC) - no standard available for quantitation
J = Other QC criteria not met (see comments)	R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit	QC = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study
MRL = Minimum Reporting Limit	LRB = Laboratory Reagent Blank
	LB = Laboratory Blank (equiv. Method Blank)
	LFB = Laboratory Fortified Blank (equiv. LCS)
	LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Logon Batch: 2007402

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-016	Site:	Crow Lane Landfill
Sample Field ID#:	LT-5B	Locator:	Leachate Tank 5
Analyte/Compound	Result	Units	MDL
Alkalinity	790	mg/L as CaCO ₃	2
Chloride	69	mg/L	0.10
Spec Cond	2700	umhos/cm	0.23
Sulfate	1200	mg/L	0.12

Sample Lab ID#:	2007402-017	Site:	Crow Lane Landfill
Sample Field ID#:	LT-5C	Locator:	Leachate Tank 5
Analyte/Compound	Result	Units	MDL
Arsenic	ND	mg/L	0.080
Barium	ND	mg/L	0.080
Cadmium	ND	mg/L	0.080
Calcium	540	mg/L	0.80
Chromium	ND	mg/L	0.080
Copper	ND	mg/L	0.40
Hardness	1700	mg/L as CaCO ₃	0.66
Iron	19	mg/L	0.15
Lead	ND	mg/L	0.080
Magnesium	76	mg/L	0.80
Manganese	4.0	mg/L	0.080
Mercury	ND	mg/L	0.0002
Selenium	ND	mg/L	0.080
Silver	ND	mg/L	0.080
Sodium	ND	mg/L	1.6
Zinc	ND	mg/L	0.080

Sample Lab ID#:	2007402-017	Site:	Crow Lane Landfill
Sample Field ID#:	LT-5C	Locator:	Leachate Tank 5
Analyte/Compound	Result	Units	MDL
Alkalinity	790	mg/L as CaCO ₃	2
Chloride	69	mg/L	0.10
Spec Cond	2700	umhos/cm	0.23
Sulfate	1200	mg/L	0.12

Sample Lab ID#:	Site:	Locator:	Matrix:	Collector:	LL	Hart, E.	Analysis Date	Collect Date:	2:00 PM	Receive Date:	10/16/2007	5:25 PM
Sample Lab ID#:	2007402-017	Site:	Crow Lane Landfill	Leachate Tank 5								
Analyte/Compound	Result	Units	MDL	MRL	Method		Analysis Date	Collect Date:	2:00 PM	Receive Date:	10/16/2007	5:25 PM
Arsenic	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Barium	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Cadmium	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Calcium	540	mg/L	0.80	2.4	EPA 6010B		12/11/2007 12:00 PM	Approved				
Chromium	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Copper	ND	mg/L	0.40	1.2	EPA 6010B		12/11/2007 12:00 PM	Approved				
Hardness	1700	mg/L as CaCO ₃	0.66	2.0	SM 2340 B		12/11/2007 12:00 PM	Approved				
Iron	19	mg/L	0.15	0.46	EPA 6010B		12/11/2007 12:00 PM	Approved				
Lead	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Magnesium	76	mg/L	0.80	2.4	EPA 6010B		12/11/2007 12:00 PM	Approved				
Manganese	4.0	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A		10/30/2007 4:00 PM	Approved				
Selenium	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Silver	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				
Sodium	ND	mg/L	1.6	4.8	EPA 6010B		12/11/2007 12:00 PM	Approved				
Zinc	ND	mg/L	0.080	0.24	EPA 6010B		12/11/2007 12:00 PM	Approved				

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRB,
and/or trip blank or no trip blank was collected
Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB,

and/or trip blank or no trip blank was collected
Estimated Value:

N = GC/MS non-target tentatively identified compound

(TC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation
and/or qualitative ID deficiencies

MDL = Method Detection Limit

MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) -
acceptance limits as per method or interlaboratory
proficiency study

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

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Analysis Report for Login.Batch: 2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION

Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-018	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/16/2007	2:00 PM
Sample Field ID#:	LT-5D	Locator:	Leachate Tank 5	Collector:		Receive Date:	10/16/2007	5:25 PM		

Analyte/Compound	Sample Lab ID#:	2007402-019	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/16/2007	2:00 PM
Analyte/Compound	Sample Lab ID#:	2007402-019	Site:	Crow Lane Landfill	Matrix:	SM 4500-CN C E	Collector:		Receive Date:	10/16/2007	5:25 PM

Surrogate	Result	Units	MDL	MRL	Result	Units	MDL	MRL	Method	Method	Acceptance Criteria	Analysis Date	Status
Dibromofluoromethane	118	% Recovery			EPA 8260B						10/01/2007 12:44 PM	Approved	
Toluene-d8	120	% Recovery			EPA 8260B						10/01/2007 12:44 PM	Approved	
4-bromofluorobenzene	106	% Recovery			EPA 8260B						10/01/2007 12:44 PM	Approved	
Dichlorodifluoromethane	ND	ug/L	0.54	4.0	EPA 8260B						10/01/2007 12:44 PM	Approved	
Chloromethane	ND	ug/L	0.64	4.0	EPA 8260B						10/01/2007 12:44 PM	Approved	
Vinyl chloride	ND	ug/L	0.46	4.0	EPA 8260B						10/01/2007 12:44 PM	Approved	
Bromomethane	ND	ug/L	0.92	4.0	EPA 8260B						10/01/2007 12:44 PM	Approved	
Chloroethane	ND	ug/L	0.34	4.0	EPA 8260B						10/01/2007 12:44 PM	Approved	
Acetone	ND	J	20	100	EPA 8260B						10/01/2007 12:44 PM	Approved	
Trichlorofluoromethane	ND	ug/L	0.88	4.0	EPA 3260B						10/01/2007 12:44 PM	Approved	

J = Accuracy data outside of acceptance criteria in MS.

Not Analyzed	Result	Units	MDL	MRL	Method	Acceptance Criteria	Analysis Date	Status
1,1-Dichloroethene	ND	ug/L	0.98	4.0	EPA 8260B			
Carbon disulfide	ND	ug/L	1.0	4.0	EPA 8260B			
Methylene chloride	ND	ug/L	0.48	4.0	EPA 8260B			
Freon-113	ND	ug/L	0.92	4.0	EPA 8260B			
trans-1,2-Dichloroethene	ND	ug/L	0.60	4.0	EPA 8260B			
Methyl-t-butyl ether	ND	ug/L	0.64	4.0	EPA 8260B			
1,1-Dichloroethane	ND	ug/L	0.98	4.0	EPA 8260B			

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected

Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

N = GC/MS non-target tentatively identified compound

(TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF ENVIRONMENTAL ANALYSIS
 WILLIAM X. WALL EXPERIMENT STATION
 EPA #: MA00019

Analysis Report for Login Batch:

2007452

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Sample Lab ID#: 2007402-019
 Sample Field ID#: LT-5E

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date: 10/16/2007	2:00 PM	Receive Date: 10/16/2007	5:25 PM
MEK	ND	ug/L	9.2	40	EPA 8260B	10/01/2007 12:44 PM	Approved			
Chlorobromomethane	ND	ug/L	0.88	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
2,2-Dichloropropane	ND	ug/L	1.0	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
cis-1,2-Dichloroethene	ND	ug/L	0.86	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Chloroform	ND	ug/L	0.82	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1,1-Trichloroethane	ND	ug/L	0.74	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Carbon tetrachloride	ND	ug/L	0.50	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1-Dichloropropene	ND	ug/L	0.46	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Benzene	ND	ug/L	0.64	4.0	EPA 8260R	10/01/2007 12:44 PM	Approved			
1,2-Dichloroethane	ND	ug/L	0.68	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Trichloroethene	ND	ug/L	0.40	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,2-Dichloropropane	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Dibromomethane	ND	ug/L	0.64	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Bromodichlormethane	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
cis-1,3-Dichloropropene	ND	ug/L	0.80	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
MBK	ND	ug/L	4.2	40	EPA 8260B	10/01/2007 12:44 PM	Approved			
Toluene	ND	ug/L	0.58	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
trans-1,3-Dichloropropene	ND	ug/L	0.88	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1,2-Trichloroethane	ND	ug/L	0.48	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Tetrachloroethene	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,3-Dichloropropane	ND	ug/L	0.28	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Dibromochlormethane	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,2-Dibromoethane	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Chlorobenzene	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1,1,2-Tetrachloroethane	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date: 10/16/2007	2:00 PM	Receive Date: 10/16/2007	5:25 PM
MEK	ND	ug/L	9.2	40	EPA 8260B	10/01/2007 12:44 PM	Approved			
Chlorobromomethane	ND	ug/L	0.88	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
2,2-Dichloropropane	ND	ug/L	1.0	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
cis-1,2-Dichloroethene	ND	ug/L	0.86	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Chloroform	ND	ug/L	0.82	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1,1-Trichloroethane	ND	ug/L	0.74	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Carbon tetrachloride	ND	ug/L	0.50	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1-Dichloropropene	ND	ug/L	0.46	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Benzene	ND	ug/L	0.64	4.0	EPA 8260R	10/01/2007 12:44 PM	Approved			
1,2-Dichloroethane	ND	ug/L	0.68	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Trichloroethene	ND	ug/L	0.40	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,2-Dichloropropane	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Dibromomethane	ND	ug/L	0.64	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Bromodichlormethane	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
cis-1,3-Dichloropropene	ND	ug/L	0.80	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
MBK	ND	ug/L	4.2	40	EPA 8260B	10/01/2007 12:44 PM	Approved			
Toluene	ND	ug/L	0.58	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
trans-1,3-Dichloropropene	ND	ug/L	0.88	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1,2-Trichloroethane	ND	ug/L	0.48	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Tetrachloroethene	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,3-Dichloropropane	ND	ug/L	0.28	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Dibromochlormethane	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,2-Dibromoethane	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
Chlorobenzene	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			
1,1,1,2-Tetrachloroethane	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved			

ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
 Estimated Value:
 M = Analyte concentration > MDL but < MRL
 H = USEPA holding time exceeded
 J = Other QC criteria not met (see comments)
 NA = Not applicable

LRB = Laboratory Reagent Blank
 LB = Laboratory Blank (equiv. Method Blank)
 LCS = Laboratory Certified Sample Matrix (equiv. MS)
 LFB = Laboratory Fortified Sample Matrix (equiv. MS)
 QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Analysis Report for Login Batch:

2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John CarriganProject Name: Crow Lane Landfill-Newburyport
Project Coordinator: John CarriganSample Lab ID#: 2007402-019
Sample Field ID#: LT5ESite: Crow Lane Landfill
Locator: Leachate Tank 5

Analyte/Compound	Result	Units	MDL	MRL	Analysis Date		Status
					Collector	LL Hart, E.	
Ethylbenzene	ND	ug/L	0.34	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
p,m-xylyne	ND	ug/L	0.98	8.0	EPA 8260B	10/01/2007 12:44 PM	Approved
o-Xylene	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Styrene	ND	ug/L	0.32	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromoform	ND	ug/L	0.70	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Isopropylbenzene	ND	ug/L	0.40	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromobenzene	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.52	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.74	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Propylbenzene	ND	ug/L	0.28	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2-Chlorotoluene	ND	ug/L	0.14	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Chlorotoluene	ND	ug/L	0.66	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3,5-Trimethylbenzene	ND	ug/L	0.26	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
tert-Butylbenzene	ND	ug/L	0.36	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trimethylbenzene	ND	ug/L	0.28	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
sec-Butylbenzene	ND	ug/L	0.34	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.36	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Isopropyltoluene	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.56	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.58	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Butylbenzene	ND	ug/L	0.34	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	1.5	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	1.0	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Hexachlorobutadiene	ND	ug/L	1.7	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Naphthalene	ND	ug/L	1.0	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRF₅, and/or trip blank or no trip blank was collected

Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

LFB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MDL = Method Detection Limit
MRL = Minimum Reporting Limit

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENTATION STATION

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Analysis Report for Login Batch: 2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John CarriganProject Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-019	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007	2:00 PM
Sample Field ID#:	LT-5E	Locator:	Leachate Tank 5	Collector:	Hart, E.	Receive Date:	10/16/2007	5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
1,2,3-Trichlorobenzene	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved

Sample was diluted 2X due to foaming; MDLs/MRLs reflect this dilution factor.

Analyte/Compound	Result	Units	MDL	MRL	Method	Acceptance Criteria	Analysis Date	Status
Surrogate								

4-bromofluorobenzene	113	% Recovery	70 - 130	Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,2-dichlorobenzene-D4	108	% Recovery	70 - 130	Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,4-Dioxane	3.5 M	ug/L	4.0	Modified EPA 524.2	10/30/2007 12:57 PM	Approved

Analyte/Compound	Result	Units	MDL	MRL	Method	Acceptance Criteria	Analysis Date	Status
Surrogate								

2-Fluorophenol	0.0	% Recovery	15 - 110	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed						
Phenol-D6	0.0	% Recovery	15 - 110	EPA 8270C	10/26/2007 12:54 PM	Approved
2-Fluorobiphenyl	0.0	% Recovery	30 - 130	EPA 8270C	10/26/2007 12:54 PM	Approved
Lost during extraction.						
Tribromophenol	0.0	% Recovery	15 - 110	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed						
4-Terphenyl-D14	0.0	% Recovery	30 - 130	EPA 8270C	10/26/2007 12:54 PM	Approved
Lost during extraction.						

ND = Analyzed for, but not detected above MDL (equiv. U)	B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
Estimated Value:	N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation.
M = Analyte concentration > MDL but < MRL	R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
H = USEPA holding time exceeded	QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study
J = Other QC criteria not met (see comments)	MDL = Method Detection Limit
NA = Not applicable	MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS

WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019.

Analysis Report for Login Batch: 2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John CarriganSite: Crow Lane Landfill
Locator: Leachate Tank 5

Sample Lab ID#: 2007402-021

Sample Field ID#: LT-5G

Project Name: Crow Lane Landfill-Newburyport

Project Coordinator: John Carrigan

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Collect Date:</u> 10/16/2007	<u>2:00 PM</u>
		ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Receive Date:	10/16/2007
								5:25 PM
Phenol	ND	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
2-Chlorophenol	ND	ug/L	1.8	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
NDPA	ND	ug/L	0.81	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
2-Nitrophenol	ND	ug/L	0.84	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Dichlorophenol	ND	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Naphthalene	ND	ug/L	1.1	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
4-Chloro-3-methylphenol	ND	ug/L	0.73	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Hexachlorocyclopentadiene	ND	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Trichlorophenol	ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Dimethyl phthalate	ND	ug/L	0.46	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Acenaphthylene	ND	ug/L	3.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Acenaphthene	ND	ug/L						
2,4-Dinitrophenol	ND	ug/L						
Not Analyzed.								
4-Nitrophenol	ND	ug/L	1.5	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Fluorene	ND	ug/L	0.52	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Diethylphthalate	ND	ug/L	1.6	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected

Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch:

2007402

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Analyte/Compound	Sample Lab ID#:	Sample Field ID#:	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date:	2:00 PM
	2007402-021	LT-5G	ND	ug/L	0.97	5.0	EPA 8270C	10/26/2007 12:54 PM	10/16/2007	2:00 PM
Pentachlorophenol			ND	ug/L	0.39	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.			ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Phenanthrene			ND	ug/L	0.87	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Anthracene			ND	ug/L	0.77	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Dibutylphthalate			ND	ug/L	0.69	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Fluoranthene			ND	ug/L	0.94	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Pyrene			ND	ug/L	0.86	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Butylbenzylphthalate			ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Bis(2-ethylhexyl)adipate			ND	ug/L	0.61	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Benzo(a)anthracene			ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Chrysene			ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Bis(2-ethylhexyl)phthalate			ND	ug/L	0.31	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Benzo(b)fluoranthene			ND	ug/L	1.2	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Benzo(k)fluoranthene			ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Benzo(a)pyrene			ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Indeno(1,2,3-cd)pyrene			ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved	
Dibenz(a,h)anthracene			ND	ug/L						
Benzo(ghi)perylene			ND	ug/L						
Benzo(ghi)perylene			ND	ug/L						

Only PAHs analysis requested. Sample lost during extraction.

Analyte/Compound	Sample Lab ID#:	Sample Field ID#:	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date:	2:30 PM
	2007402-022	LT-3A	3.2	mg/L	0.020	0.060	EPA 350.1	10/18/2007 10:21 AM	10/16/2007	2:30 PM
Ammonia-N			65	mg/L	17	51	SM-5220 C			

Analyte/Compound	Sample Lab ID#:	Sample Field ID#:	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date:	2:25 PM
	2007402-022	LT-3A	65	mg/L				10/16/2007 12:00 PM	10/16/2007	2:25 PM
COD										

ND = Analyzed for, but not detected above MDL (equiv. U)
 Estimated Value:
 Ammonia-N
 COD
 B = Analyte detected in sample, and in LB, LRE, and/or trip blank or no trip blank was collected
 N = GC/MS non-target tentatively identified compound
 H = USEPA holding time exceeded
 J = Other QC criteria not met (see comments)
 R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
 MDL = Method Detection Limit
 MRL = Minimum Reporting Limit
 LRB = Laboratory Reagent Blank
 LB = Laboratory Blank (equiv. Method Blank)
 LFB = Laboratory Fortified Blank (equiv. LCS)
 LFM = Laboratory Fortified Sample Matrix (equiv. MS)
 QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Analysis Report for Login Batch:

2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Sample Lab ID#: 2007402-037
 Sample Field ID#: LS-1B

Sample Lab ID#:	Site:	Site:	Matrix:	Collector:	LL	Collect Date:	10/16/2007	3:30 PM
Sample Field ID#:	Locator:	Leachate Sep. 1	Collector:	Hart, E		Receive Date:	10/16/2007	5:25 PM

Analyte/Compound

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	10/22/2007 12:00 PM	Approved
Alkalinity	1900	mg/L as CaCO ₃	2	2	SM 2320 B			
Chloride	430	mg/L	0.10	0.30	EPA 300.0			
Spec Cond	4800	umhos/cm	0.23	0.69	SM 2510 B			
Sulfate	290	mg/L	0.12	0.36	EPA 300.0			

Analyte/Compound

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	10/22/2007 12:00 PM	Approved
Arsenic	ND	mg/L	0.080	0.24	EPA 6010B			
Barium	2.2	mg/L	0.080	0.24	EPA 6010B			
Cadmium	ND	mg/L	0.080	0.24	EPA 6010B			
Calcium	250	mg/L	0.80	2.4	EPA 6010C/B			
Chromium	ND	mg/L	0.080	0.24	EPA 6010B			
Copper	ND	mg/L	0.40	1.2	EPA 8010B			
Hardness	1100	mg/L as CaCO ₃	0.66	2.0	SM 2340 B			
Iron	43	mg/L	0.15	0.46	EPA 3010B			
Lead	0.11 M	mg/L	0.080	0.24	EPA 6010B			
Magnesium	120	mg/L	0.80	2.4	EPA 6010B			
Manganese	0.71	mg/L	0.080	0.24	EPA 6010B			
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A			
Selenium	ND	mg/L	0.080	0.24	EPA 6010B			
Silver	ND	mg/L	0.080	0.24	EPA 6010B			
Sodium	3.3 M	mg/L	1.6	4.8	EPA 5010B			
Zinc	ND	mg/L	0.080	0.24	EPA 6010B			

ND = Analyzed for, but not detected above MDL (equiv. U)

Estimated Value:
M = Analyte concentration > MDL but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)
NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

LRB = Laboratory Resident Blank

LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-039	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/16/2007	3:30 PM
Sample Field ID#:	LS-1D	Locator:	Leachate Sep 1	Collector:		Analysis Date		Receive Date:	10/16/2007	5:25 PM

Analyte/Compound
Total Cyanide

Result	Units	MDL	MRL	Method
ND	mg/L	0.10	0.30	SM 4500-CNC E

Sample Lab ID#: 2007402-040
Sample Field ID#: LS-1E

Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/16/2007	3:30 PM
Locator:	Leachate Sep 1	Collector:		Analysis Date		Receive Date:	10/16/2007	5:25 PM

Analyte/Compound

Result	Units	MDL	MRL	Method
				<u>Acceptance Criteria</u>

Surrogate

Dibromofluoromethane	103	% Recovery	70 - 130	EPA 8260B;
Toluene-d8	99	% Recovery	70 - 130	EPA 8260B;
4-bromofluorobenzene	97	% Recovery	70 - 130	EPA 8260B;

J = Accuracy data outside of acceptance criteria in MS.

Chloromethane	ND	ug/L	0.54	4.0	EPA 8260B
		ug/L	0.64	4.0	EPA 8260B
Vinyl chloride	ND	ug/L	0.46	4.0	EPA 8260B
Bromomethane	ND	ug/L	0.92	4.0	EPA 8260B
Chloroethane	ND	ug/L	0.34	4.0	EPA 8260B
Acetone	ND J	ug/L	20	100	EPA 8260B

J = Accuracy data outside of acceptance criteria in MS.

Trichlorofluoromethane	ND	ug/L	0.88	4.0	EPA 8260B
		ug/L	0.98	4.0	EPA 8260B
1,1-Dichloroethene	ND	ug/L	1.0	4.0	EPA 8260B
Carbon disulfide	ND	ug/L	0.48	4.0	EPA 8260B
Methylene chloride	ND	ug/L	0.92	4.0	EPA 8260B
Freon-113	ND	ug/L	0.60	4.0	EPA 8260B
trans-1,2-Dichloroethene	ND	ug/L	0.64	4.0	EPA 8260B
Methyl-t-butyl ether	1.5 M	ug/L			

ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
Estimated Value:
M = Analyte concentration > MDL but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank	N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
LB = Laboratory Blank (equiv. Method Blank)	
LFB = Laboratory Fortified Blank (equiv. LCS)	
LFM = Laboratory Fortified Sample Matrix (equiv. MS)	
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study	

NA = Not applicable

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MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF ENVIRONMENTAL ANALYSIS
 WILLIAM X. WALL EXPERIMENTATION STATION
 EPA #: MA00019

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch: 2007402-2

Project Name: Crow Lane Landfill
 Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-040	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/16/2007	3:30 PM
Sample Field ID#:	LS-1E	Locator:	Leachate Sep 1	Collector:		Receive Date:	10/16/2007	5:25 PM		

Analyte/Compound

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
1,1-Dichloroethane	ND	ug/L	0.98	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MEK	ND	ug/L	9.2	40	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobromomethane	ND	ug/L	0.88	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2,2-Dichloropropane	ND	ug/L	1.0	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	0.86	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroform	ND	ug/L	0.82	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	0.74	4.0	EPA 8250B	10/01/2007 12:44 PM	Approved
Carbon tetrachloride	ND	ug/L	0.50	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.46	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Benzene	ND	ug/L	0.64	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.68	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Trichloroethene	ND	ug/L	0.40	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromomethane	ND	ug/L	0.64	4.0	EPA 8260S	10/01/2007 12:44 PM	Approved
Bromodichloromethane	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.80	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MIBK	ND	ug/L	4.2	40	EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene	ND	ug/L	0.58	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.88	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.48	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Tetrachloroethene	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.28	4.0	EPA 8250B	10/01/2007 12:44 PM	Approved
Dibromochloromethane	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.60	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobenzene	ND	ug/L	0.44	4.0	EPA 8250B	10/01/2007 12:44 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)

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Estimated Value:
M = Analyte concentration > MDL but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007482

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-040	Site:	Crow Lane Landfill	Matrix:	LL	Collectors:	Hart, E.
Sample Field ID#:	LS-1E	Locator:	Leachate Sep 1				

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date: 10/16/2007	Receive Date: 10/16/2007	3:30 PM	3:30 PM	Status
1,1,1,2-Tetrachloroethane	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
Ethylbenzene	ND	ug/L	0.34	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
p,m-xylene	ND	ug/L	0.98	8.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
o-Xylene	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
Styrene	ND	ug/L	0.32	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
Bromoform	ND	ug/L	0.70	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
Isopropylbenzene	ND	ug/L	0.40	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
Bromobenzene	ND	ug/L	0.44	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,1,2,2-Tetrachloroethane	ND	ug/L	0.52	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,2,3-Trichloropropane	ND	ug/L	0.74	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
n-Propylbenzene	ND	ug/L	0.28	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
2-Chlorotoluene	ND	ug/L	0.14	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
4-Chlorotoluene	ND	ug/L	0.66	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,3,5-Trimethylbenzene	ND	ug/L	0.26	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
tert-Butylbenzene	ND	ug/L	0.36	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,2,4-Trimethylbenzene	ND	ug/L	0.28	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
sec-Butylbenzene	ND	ug/L	0.34	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,3-Dichlorobenzene	ND	ug/L	0.36	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
4-Isopropyltoluene	ND	ug/L	0.54	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,4-Dichlorobenzene	ND	ug/L	0.56	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,2-Dichlorobenzene	ND	ug/L	0.58	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
n-Butylbenzene	ND	ug/L	0.34	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,2-Dibromo-3-chloropropane	ND	ug/L	1.5	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
1,2,4-Trichlorobenzene	ND	ug/L	1.0	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				
Hexachlorobutadiene	ND	ug/L	1.7	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved				

ND = Analyzed for, but not detected above MDL (equiv. U)

Estimated Value:
B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collectedM = Analyte concentration > MDL but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MDL = Method Detection Limit
MRL = Minimum Reporting Limit

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF ENVIRONMENTAL ANALYSIS
 WILLIAM X. WALL EXPERIMENT STATION
 EPA #: MA00019

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch: 2007432

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

<u>Sample Lab ID#:</u>	<u>2007402-040</u>	<u>Site:</u>	<u>Crow Lane Landfill</u>	<u>Matrix:</u>	<u>LL</u>	<u>Collector:</u>	<u>Hart, E.</u>	<u>Collect Date:</u>	<u>10/16/2007</u>	<u>3:30 PM</u>
<u>Sample Field ID#:</u>	<u>LS-1E</u>	<u>Locator:</u>	<u>Leachate Sep 1</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>		<u>Receive Date:</u>	<u>10/16/2007</u>	<u>5:25 PM</u>
<u>Analyte/Compound</u>		<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>		<u>Analysis Date</u>		<u>Status</u>
Naphthalene	11	ug/L	1.0	4.0	EPA 8260B			10/01/2007 12:44 PM	Approved	
1,2,3-Trichlorobenzene	ND	ug/L	0.54	4.0	EPA 8260B			10/01/2007 12:44 PM	Approved	
<u>Sample Lab ID#:</u>	<u>2007402-041</u>	<u>Site:</u>	<u>Crow Lane Landfill</u>	<u>Matrix:</u>	<u>LL</u>	<u>Collector:</u>	<u>Hart, E.</u>	<u>Collect Date:</u>	<u>10/16/2007</u>	<u>3:30 PM</u>
<u>Sample Field ID#:</u>	<u>LS-1F</u>	<u>Locator:</u>	<u>Leachate Sep 1</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>		<u>Receive Date:</u>	<u>10/16/2007</u>	<u>5:25 PM</u>
<u>Analyte/Compound</u>		<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>		<u>Analysis Date</u>		<u>Status</u>
<u>Surrogate</u>										
4-bromofluorobenzene	113	% Recovery	70 - 130	Modified EPA 524.2				10/30/2007 12:57 PM	Approved	
1,2-dichlorobenzene-D4	113	% Recovery	70 - 130	Modified EPA 524.2				10/30/2007 12:57 PM	Approved	
1,4-Dioxane	20	ug/L	4.0	Modified EPA 524.2				10/30/2007 12:57 PM	Approved	
<u>Sample Lab ID#:</u>	<u>2007402-042</u>	<u>Site:</u>	<u>Crow Lane Landfill</u>	<u>Matrix:</u>	<u>LL</u>	<u>Collector:</u>	<u>Hart, E.</u>	<u>Collect Date:</u>	<u>10/16/2007</u>	<u>3:30 PM</u>
<u>Sample Field ID#:</u>	<u>LS-1G</u>	<u>Locator:</u>	<u>Leachate Sep 1</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>		<u>Receive Date:</u>	<u>10/16/2007</u>	<u>5:25 PM</u>
<u>Analyte/Compound</u>		<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>		<u>Analysis Date</u>		<u>Status</u>
<u>Surrogate</u>										
2-Fluorophenol	0.0	% Recovery	15 - 110	EPA 8270C				10/26/2007 12:54 PM	Approved	
Not Analyzed										
Phenol-D6	0.0	% Recovery	15 - 110	EPA 8270C				10/26/2007 12:54 PM	Approved	
Not Analyzed										
2-Fluorobiphenyl	88	% Recovery	30 - 130	EPA 8270C				10/26/2007 12:54 PM	Approved	
Tribromophenol	0.0	% Recovery	15 - 110	EPA 8270C				10/26/2007 12:54 PM	Approved	
Not Analyzed										
4-Terphenyl-D14	88	% Recovery	30 - 130	EPA 8270C				10/26/2007 12:54 PM	Approved	

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRE, Estimated Value:

M = Analyte concentration > MDL but < MRL H = USEPA holding time exceeded J = Other QC criteria not met (see comments)

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies NA = Not applicable

LRB = Laboratory Resident Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF ENVIRONMENTAL ANALYSIS
 WILLIAM X. WALL EXPERIMENTATION STATION
 EPA #: MA00019

Analysis Report for Login Batch: 2007482

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-012	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007	3:30 PM
Sample Field ID#:	LS-IG	Locator:	Leachate Sep 1	Collector:	Hart, E.	Receive Date:	10/16/2007	5:25 PM
Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date		Status
Phenol	ND	ug/L	0.58	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
2-Chlorophenol	ND	ug/L	2.0	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
NDPA	ND	ug/L	3.6	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
2-Nitrophenol	ND	ug/L	1.6	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Dichlorophenol	ND	ug/L	1.7	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Naphthalene	2.8 M	ug/L	0.58	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
4-Chloro-3-methylphenol	ND	ug/L	2.2	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Hexachlorocyclopentadiene	ND J	ug/L		10	EPA 8270C	10/26/2007 12:54 PM	Approved	
J = Accuracy data (LCS & MS) outside of acceptance criteria.								
Trichlorophenol	ND	ug/L	1.5	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Dimethyl phthalate	ND J	ug/L	2.0	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
J = Accuracy data (LCS & MS) outside of acceptance criteria.								
Acenaphthylene	ND	ug/L	1.3	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Acenaphthene	ND	ug/L	0.92	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
2,4-Dinitrophenol	ND	ug/L	6.0	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
4-Nitrophenol	ND	ug/L	3.0	10	EPA 8270C	10/26/2007 12:54 PM	Approved	
Not Analyzed.								
Fluorene	3.1 M	ug/L	1.0	10	EPA 8270C	10/26/2007 12:54 PM	Approved	

ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LRB.
 Estimated Value:
 M = Analyte concentration > MDL but < MRL
 H = USEPA holding time exceeded
 J = Other QC criteria not met (see comments)
 NA = Not applicable
 LRB = Laboratory Reagent Blank
 LB = Laboratory Blank (equiv. Method Blank)
 LFB = Laboratory Fortified Blank (equiv. LCS)
 LFM = Laboratory Fortified Sample Matrix (equiv. MS)
 QCS = Quality Control Sample (external to lab) -
 acceptance limits as per method or interlaboratory
 proficiency study
 MDL = Method Detection Limit
 MRL = Minimum Reporting Limit

N = GC/MS non-target tentatively identified compound
 (TC) - no standard available for quantitation
 R = Data rejected due to severe QC, quantitation
 and/or qualitative ID deficiencies

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Sample Lab ID#:	2007402-042	Site:	Crow Lane Landfill	Matrix:	LL	Collector:	Hart, E.	Collect Date:	10/16/2007	Analysis Date:	10/16/2007	Receive Date:	10/16/2007	3:30 PM
Sample Field ID#:	LS-1G	Locator:	Leachate Sep 1											5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Diethylphthalate	ND	ug/L	3.2	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Pentachlorophenol	ND	ug/L	1.9	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Phenanthrene	4.6 M	ug/L	0.78	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Anthracene	3.2 M	ug/L	0.96	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibutylphthalate	51 J	ug/L	1.7	10	EPA 3270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (MS) outside of acceptance criteria.							
Fluoranthene	4.3 M	ug/L	1.5	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Pyrene	4.8 M	ug/L	1.4	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Butylbenzylphthalate	ND	ug/L	1.9	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)adipate	ND	ug/L	1.7	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(a)anthracene	3.8 M	ug/L	1.1	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Chrysene	4.2 M	ug/L	1.2	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)phthalate	19	ug/L	2.6	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(b)fluoranthene	3.5 M	ug/L	2.6	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(k)fluoranthene	3.9 M	ug/L	0.62	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(a)pyrene	5.1 M	ug/L	2.4	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Indeno(1,2,3-cd)pyrene	4.2 M	ug/L	1.1	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibenzo(a,h)anthracene	ND	ug/L	1.3	10	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(ghi)perylene	4.1 M	ug/L	0.96	10	EPA 8270C	10/26/2007 12:54 PM	Approved

Only PAHs analysis requested. Sample was diluted 2X for analysis; MDLs/MRLs reflect this dilution factor.

Sample Lab ID#:	2007402-044	Site:	Crow Lane Landfill	Matrix:	SED	Collector:	Hart, E.	Collect Date:	10/16/2007	Analysis Date:	10/16/2007	Receive Date:	10/16/2007	4:00 PM
Sample Field ID#:	BS-1	Locator:	Basin Sample 1											5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
ND = Analyzed for, but not detected above MDL (equiv. U)	B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected						LRB = Laboratory Reagent Blank
Estimated Value:							LB = Laboratory Blank (equiv. Method Blank)
M = Analyte concentration > MDL but < MRL							LFB = Laboratory Fortified Blank (equiv. LCS)
H = USEPA holding time exceeded							LFM = Laboratory Fortified Sample Matrix (equiv. MS)
J = Other QC criteria not met (see comments)							QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study
NA = Not applicable							MDL = Method Detection Limit
							MRL = Minimum Reporting Limit

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch: 2007402-044
 Sample Lab ID#: 2007402-044
 Sample Field ID#: BS-1

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Matrix</u>	<u>Collector</u>	<u>SED</u>	<u>Collect Date:</u>	<u>Receive Date:</u>
Sulfate	1600 J	ug/g wet	1.2	3.6	EPA 300.0	Hart, E.			10/13/2007 4:00 PM	Approved

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Matrix</u>	<u>Collector</u>	<u>SED</u>	<u>Collect Date:</u>	<u>Receive Date:</u>
Arsenic	8.1 J	ug/g wet	0.50	1.5	EPA 8010B				12/11/2007 2:00 PM	Approved
Barium	130	ug/g wet	0.50	1.5	EPA 6010B				12/11/2007 2:00 PM	Approved
Cadmium	ND	ug/g wet	0.50	1.5	EPA 6010B				12/11/2007 2:00 PM	Approved
Calcium	26000 J	ug/g wet	4.0	12	EPA 5010B				12/11/2007 2:00 PM	Approved
Chromium	38	ug/g wet	0.50	1.5	EPA 5010B				12/11/2007 2:00 PM	Approved
Copper	64	ug/g wet	2.0	6.0	EPA 5010B				12/11/2007 2:00 PM	Approved
Iron	24000	ug/g wet	0.80	2.4	EPA 5010B				12/11/2007 2:00 PM	Approved
Lead	190	ug/g wet	0.50	6.0	EPA 5010B				12/11/2007 2:00 PM	Approved
Magnesium	7000	ug/g wet	0.80	2.4	EPA 5010B				12/11/2007 2:00 PM	Approved
Manganese	630	ug/g wet	0.80	2.4	EPA 5010B				12/11/2007 2:00 PM	Approved
Mercury	0.25	ug/g wet	0.0020	0.0060	EPA 7473				10/30/2007 3:00 PM	Approved
Selenium	ND	ug/g wet	0.70	2.1	EPA 5010B				12/11/2007 2:00 PM	Approved
Silver	ND J	ug/g wet	0.50	1.5	EPA 6010B				12/11/2007 2:00 PM	Approved
Sodium	340 J	ug/g wet	1.6	4.8	EPA 5010B				12/11/2007 2:00 AM	Approved
Zinc	200	ug/g wet	1.6	4.8	EPA 5010B				12/11/2007 2:00 PM	Approved

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Matrix</u>	<u>Collector</u>	<u>SED</u>	<u>Collect Date:</u>	<u>Receive Date:</u>
Arsenic	8.1 J	ug/g wet	0.50	1.5	EPA 8010B				12/11/2007 2:00 PM	Approved
Barium	130	ug/g wet	0.50	1.5	EPA 6010B				12/11/2007 2:00 PM	Approved
Cadmium	ND	ug/g wet	0.50	1.5	EPA 6010B				12/11/2007 2:00 PM	Approved
Calcium	26000 J	ug/g wet	4.0	12	EPA 5010B				12/11/2007 2:00 PM	Approved
Chromium	38	ug/g wet	0.50	1.5	EPA 5010B				12/11/2007 2:00 PM	Approved
Copper	64	ug/g wet	2.0	6.0	EPA 5010B				12/11/2007 2:00 PM	Approved
Iron	24000	ug/g wet	0.80	2.4	EPA 5010B				12/11/2007 2:00 PM	Approved
Lead	190	ug/g wet	0.50	6.0	EPA 5010B				12/11/2007 2:00 PM	Approved
Magnesium	7000	ug/g wet	0.80	2.4	EPA 5010B				12/11/2007 2:00 PM	Approved
Manganese	630	ug/g wet	0.80	2.4	EPA 5010B				12/11/2007 2:00 PM	Approved
Mercury	0.25	ug/g wet	0.0020	0.0060	EPA 7473				10/30/2007 3:00 PM	Approved
Selenium	ND	ug/g wet	0.70	2.1	EPA 5010B				12/11/2007 2:00 PM	Approved
Silver	ND J	ug/g wet	0.50	1.5	EPA 6010B				12/11/2007 2:00 PM	Approved
Sodium	340 J	ug/g wet	1.6	4.8	EPA 5010B				12/11/2007 2:00 AM	Approved
Zinc	200	ug/g wet	1.6	4.8	EPA 5010B				12/11/2007 2:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
 Estimated Value:
 M = Analyte concentration > MDL but < MRL
 H = USEPA holding time exceeded
 J = Other QC criteria not met (see comments)
 NA = Not applicable

LRB = Laboratory Reagent Blank
 LB = Laboratory Blank (equiv. Method Blank)
 LFB = Laboratory Fortified Blank (equiv. LCS)
 LFM = Laboratory Fortified Sample Matrix (equiv. MS)
 QCS = Quality Control Sample (external to lab)- acceptance limits as per method or interlaboratory proficiency study

MDL = Method Detection Limit
 MRL = Minimum Reporting Limit

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF ENVIRONMENTAL ANALYSIS
 WILLIAM X. WALL EXPERIMENTATION STATION
 EPA #: MA00019

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch: 2007432

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-046	Site:	Crow Lane Landfill	Matrix:	SED	Collect Date:	10/16/2007	4:00 PM
Sample Field ID#:	BS-1	Locator:	Basin Sample 1	Collector:	Hart, E.	Receive Date:	10/16/2007	5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Solid Concentration	61	%	2.0	6.0	EPA 3010B/EPA 9014	10/29/2007 12:00 PM	Approved

Sample Lab ID#:	2007402-047	Site:	Crow Lane Landfill	Matrix:	TB	Collect Date:	10/15/2007	4:00 PM
Sample Field ID#:	TB VOC	Locator:	Trip Blank	Collector:	Hart, E.	Receive Date:	10/16/2007	5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate							
Dibromofluoromethane	108	% Recovery	70 - 130	EPA 8260S		10/01/2007 12:44 PM	Approved
Toluene-d8	104	% Recovery	70 - 130	EPA 8260S		10/01/2007 12:44 PM	Approved
4-bromofluorobenzene	92	% Recovery	70 - 130	EPA 8260S		10/01/2007 12:44 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B		
Chloromethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260S	10/01/2007 12:44 PM	Approved
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroethane	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Acetone	ND J	ug/L	10	50	EPA 8260B	10/01/2007 12:44 PM	Approved
J = Accuracy data outside of acceptance criteria in MS.							
Trichlorofluoromethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Not Analyzed							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon disulfide	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methyl-t-butyl ether	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)	B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
Estimated Value:	LRB = Laboratory Reagent Blank
M = Analyte concentration > MDL but < MRL	LB = Laboratory Blank (equiv. Method Blank)
H = USEPA holding time exceeded	LFB = Laboratory Fortified Blank (equiv. LCS)
J = Other QC criteria not met (see comments)	LFM = Laboratory Fortified Sample Matrix (equiv. MS)
NA = Not applicable	GCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

LRB = Laboratory Reagent Blank
 LB = Laboratory Blank (equiv. Method Blank)
 LFB = Laboratory Fortified Blank (equiv. LCS)
 LFM = Laboratory Fortified Sample Matrix (equiv. MS)
 GCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

N = GC/MS non-target tentatively identified compound

(TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

MRL = Minimum Reporting Limit

Analysis Report for Login Batch: 2007-02

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Sample Lab ID#: 2007402-047
Sample Field ID#: TB VOC

Site: Crow Lane Landfill
Locator: Trip Blank

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Collect Date: 10/1/2007	Receive Date: 10/1/2007	4:00 PM	5:25 PM	Status
1,1-Dichloroethane	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	10/01/2007 12:44 PM					Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
cis-1,2-Dichloroethene	ND	ug/L	0.43	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Benzene	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Trichloroethylene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
MIBK	ND	ug/L	2.1	20	EPA 8260B	10/01/2007 12:44 PM					Approved
Toluene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8230B	10/01/2007 12:44 PM					Approved
Dibromo-chloromethane	ND	ug/L	0.30	2.0	EPA 8250B	10/01/2007 12:44 PM					Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM					Approved

ND = Analyzed for, but not detected above MDL (equiv. U) B = Analyte detected in sample, and in LB, LPR,
Estimated Value:
M = Analyte concentration > MDL, but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

N = GC/MS non-target tentatively identified compound
(TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation
and/or qualitative ID deficiencies
MDL = Method Detection Limit
MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) -
acceptance limits as per method or interlaboratory
proficiency study

Report Print Date: 2/1/2008

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSISWILLIAM X. WALL EXPERIMENTATION STATION
EPA #: MA00019

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Analysis Report for Login Batch:

2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John CarriganProject Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007402-047	Site:	Crow Lane Landfill	Matrix:	TB	Collect Date:	10/15/2007	4:00 PM	
Sample Field ID#:	TB\ VOC	Locator:	Trip Blank	Collector:	Hart, E.	Receive Date:	10/16/2007	5:25 PM	
Analyte/Compound		Result	Units	MDL	MRL	Method	Analysis Date		Status
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
Ethylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
p,m-xylene	ND	ug/L	0.49	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
o-Xylene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
Isopropylbenzene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,3,5-Trimethylbenzene	ND	ug/L	0.13	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,2,4-Trimethylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
4-Isopropyltoluene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
1,2,4-Trichlorobenzenes	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved		

ND = Analyzed for, but not detected above MDL (equiv. U)

B = Analyte detected in sample, and in LB, LRB,
and/or trip blank or no trip blank was collected

Estimated Value:

M = Analyte concentration > MDL but < MRL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) -
acceptance limits as per method or interlaboratory
proficiency study

Analysis Report for Login Batch:

2007402

Prepared For: NERO BUREAU OF WASTE PREVENTION

Contact: John Carrigan

Project Name:

Project Coordinator: John Carrigan

Sample Lab ID#: 2007402-047	Site: Crow Lane Landfill	Matrix: TB	Collect Date: 10/15/2007
Sample Field ID#: TB\OOC	Locator: Trip Blank	Collector: Hart, E.	Receive Date: 10/16/2007

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Status</u>
Naphthalene	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

Sample Lab ID#: 2007402-048	Site: Crow Lane Landfill	Matrix: TB	Collect Date: 10/15/2007
Sample Field ID#: TB 1,4-D	Locator: Trip Blank	Collector: Hart, E.	Receive Date: 10/16/2007

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Status</u>
<u>Surrogate</u>							
4-bromofluorobenzene	112	% Recovery	70 - 130	Modified EPA 524.2	10/30/2007 12:57 PM	Approved	
1,2-dichlorobenzene-D4	104	% Recovery	70 - 130	Modified EPA 524.2	10/30/2007 12:57 PM	Approved	

<u>Analyte/Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>MRL</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Status</u>
1,4-Dioxane	ND	ug/L		2.0	Modified EPA 524.2	10/30/2007 12:57 PM	Approved

Quality Control Data

<u>Analyte/Compound</u>	<u>QC Type</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Criteria</u>	<u>Method</u>	<u>Spike Conc.</u>	<u>Spike Units</u>	<u>Analysis Date</u>
Alkalinity	LFB	104	% Recovery	90 - 110	SM 2320 B	50	mg/L	10/22/2007 12:00 PM
Alkalinity	QCS	106	% Recovery	90 - 110	SM 2320 B	50	mg/L	10/22/2007 12:00 PM
Alkalinity	Samp DUP	0.0	RPD	0 - 20	SM 2320 B	NA		10/22/2007 12:00 PM
Alkalinity	Sample Lab ID#:	2007390-016						
Alkalinity	Samp DUP2	0.0	RPD	0 - 20	SM 2320 B	NA		10/22/2007 12:00 PM
Ammonia-N	Sample Lab ID#:	2007402-023						
Ammonia-N	LFB	99	% Recovery	90 - 110	EPA 350.1	0.20	mg/L	10/18/2007 10:21 AM
Ammonia-N	LFM	107	% Recovery	85 - 115	EPA 350.1	160	mg/L	10/18/2007 10:21 AM
Ammonia-N	Sample Lab ID#:	2007402-029						
Ammonia-N	LFM2	103	% Recovery	85 - 115	EPA 350.1	0.45	mg/L	10/18/2007 10:21 AM

ND = Analyzed for, but not detected above MDL (equiv. U)

Estimated Value:
M = Analyte concentration > MDL but < MRL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)
NA = Not applicable

B = Analyte detected in sample, and in LB, LRE, and/or trip blank or no trip blank was collected*

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit
MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Prepared For: NERO BUREAU OF WASTE PREVENTION
 Contact: John Carrigan

Analysis Report for Login Batch: 2007402

Project Name: Crow Lane Landfill-Newburyport
 Project Coordinator: John Carrigan

Quality Control Data							
Analyte/Compound	QC Type	Result	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units
Ammonia-N	Sample Lab ID#: 2007393-003	99	% Recovery	85 - 115	EPA 350.1	0.45	mg/L
Ammonia-N	LRB	ND	mg/L	ND	EPA 350.1		
Ammonia-N	QCS	99	% Recovery	90 - 110	EPA 350.1	0.50	mg/L
Ammonia-N	Samp DUP	0.35	RPD	0 - 20	EPA 350.1	NA	
Ammonia-N	Sample Lab ID#: 2007402-029						
Ammonia-N	Samp DUP2	1.6	RPD	0 - 20	EPA 350.1	NA	
Ammonia-N	Sample Lab ID#: 2007389-005						
Ammonia-N	Samp DUP3	4.4	RPD	0 - 20	EPA 350.1	NA	
Ammonia-N	Sample Lab ID#: 2007393-003						
Arsenic	LFB	95	% Recovery	85 - 115	EPA 6010B	2.5	mg/L
Arsenic	LFM	94	% Recovery	75 - 125	EPA 6010B	207	ug/g wet
Arsenic	Sample Lab ID#: 2007402-045						
Arsenic	LFM	97	% Recovery	75 - 125	EPA 6010B	20	mg/L
Arsenic	Sample Lab ID#: 2007402-002						
Arsenic	LRB	ND	ug/g wet	ND	EPA 6010B		
Arsenic	LRB	ND	mg/L	ND	EPA 3010B		
Arsenic	QCS	97	% Recovery	70 - 130	EPA 6010B	147	ug/g dry
Arsenic	QCS	94	% Recovery	80 - 120	EPA 6010B	2.5	mg/L
Arsenic	Samp DUP	45	RPD	0 - 35	EPA 6010B	NA	
Matrix not homogenous for this analyte. Arsenic result qualified.							
Arsenic	Sample Lab ID#: 2007402-045						
Arsenic	Samp DUP	0.0	RPD	0 - 20	EPA 6010B	NA	
Barium	LFB	99	% Recovery	85 - 115	EPA 6010B	2.5	mg/L
Barium	LFM	98	% Recovery	75 - 125	EPA 6010B	207	ug/g wet

ND = Analyzed for, but not detected above MDL (equiv. U)	B = Analyte detected in sample, and in LB, LRE, and/or trip blank or no trip blank was collected	LRB = Laboratory Reagent Blank
Estimated Value:	N = GC/MS non-target tentatively identified compound	LB = Laboratory Blank (equiv. Method Blank)
M = Analyte concentration > MDL but < MRL	(TIC) - no standard available for quantitation	LFB = Laboratory Fortified Blank (equiv. LCS)
H = USEPA holding time exceeded	R = Data rejected due to severe QC, quantitative and/or qualitative ID deficiencies	LFM = Laboratory Fortified Sample Matrix (equiv. MS)
J = Other QC criteria not met (see comments)	MDL = Method Detection Limit	QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study
NA = Not applicable	MRL = Minimum Reporting Limit	